

Notice of Allowability

Application No.

10/724,446

Examiner

Paul Kim

Applicant(s)

OH ET AL.

Art Unit

2857

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to after-final amendment filed on July 13, 2005.
2. ☒ The allowed claim(s) is/are 21-30,32 and 33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Allowance

1. Authorization for this examiner's amendment was given in a telephone interview with Ed Pfleger on January 18, 2006.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

With regard to claim 30, "operating a *second* expansion card that complies with a specification other than *said* PC Card Specification" has been changed to – operating another expansion card that complies with a specification other than a PC Card Specification – and "said first and/or second expansion card" has been changed to – said Smart Card and/or another expansion card – in lines 6 and 7.

2. The following is an examiner's statement of reasons for allowance: The reasons for allowing claims 21-29 was given in the office action filed on July 13, 2005. With regard to claims 30, 32, and 33, none of the prior art of record teaches an integrated controller comprising first logic sets for operating a Smart Card, second logic sets for operating a second expansion card that does not comply with a PC Card specification, and a bus controller providing communication between the Smart card and second card using PC card communication protocols.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

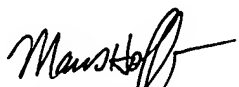
accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Kim whose telephone number is 571-272-2217. The examiner can normally be reached on Monday-Thursday 10:00-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PK
January 18, 2006


MARC S. HOFF
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Examiner's Amendment

003

Amendment C
USSN 10/724,446
September 14, 2005
Page 2 of 6

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (cancelled)

Claim 21. (previously presented): A method for detecting and operating an expansion card, comprising:

detecting that a Smart Card is inserted into a card socket using conventional PC Card signal lines;

enabling Smart Card reader logic to read said Smart Card; and

enabling MUX logic to provide communication between said Smart Card and bus controller logic using conventional PC Card communication protocols.

Claim 22. (previously presented): A method as claimed in claim 21, said step of determining the type of card further comprising the steps of:

determining the signal state of a first and second card detection signal lines;

determining the signal state of a first and second voltage select signal lines;

determining if said first and/or second card detection signal lines, or said first and/or second voltage select signal lines, comprise a signal state that is reserved by a PC Card signal specification;

Amendment C
USSN 10/724,446
September 14, 2005
Page 3 of 6

determining the signal state of a PC Card signal line that is unused during the detection of a PC Card; and

determining the presence of said Smart Card based on the signal states of said first and second card detection signal lines, said first and said second voltage select signal lines, and said unused PC Card signal line.

Claim 23. (previously presented): A method as claimed in claim 21, further comprising the steps of:

interfacing said Smart Card to a bus using said bus controller logic to provide communication between said bus and said Smart Card.

Claim 24. (previously presented): A system for the detection and operation of a plurality of expansion cards, comprising:

a first socket for receiving a first expansion card that complies with the PC Card Specification;

a second socket for receiving a second expansion card that complies with a specification other than said PC Card Specification;

an integrated controller comprising first logic sets for detecting and operating said first expansion card, second logic sets for detecting and operating said second expansion card, MUX logic enabled by said first and/or second logic sets to provide communication between said first and/or second expansion card and a bus controller logic using conventional PC card communication protocols.

Amendment C
USSN 10/724,446
September 14, 2005
Page 4 of 6

Claim 25. (previously presented): A system as claimed in claim 24, wherein said first card comprising a CardBus card.

Claim 26. (previously presented): A system as claimed in claim 24, wherein said second card comprising a Smart Card.

Claim 27. (previously presented): A system as claimed in claim 24, said integrated controller further comprising a bus interface to permit said bus controller logic to communicate with a bus.

Claim 28. (previously presented): A system as claimed in claim 27, wherein said bus comprises a PCI bus and said bus controller logic comprises PCI bus and conventional PC card communication protocols.

Claim 29. (previously presented): A system as claimed in claim 24, wherein said second logic set detects said second card using conventional PC Card signal lines.

Claim 30. (currently amended): An integrated controller for reading a plurality of expansion cards, comprising:

first logic sets for detecting and operating a ~~first expansion card~~ Smart Card;

second logic sets for detecting and operating ^{another} ~~a second~~ expansion card that complies with a specification other than said ^a ~~PC Card~~ Specification; and

Amendment C
USSN 10/724,446
September 14, 2005
Page 5 of 6

a bus interface controller adapted to provide communication between said ~~first~~ ^{Smart Card} and/or ~~second~~ ^{another} expansion card and a bus interface using conventional PC card communication protocols.

Claim 31 (cancelled)

Claim 32. (previously presented): A controller as claimed in claim 30, wherein said second expansion card comprises a CardBus and/or PCMCIA card.

Claim 33. (previously presented): A controller as claimed in claim 30, wherein said PC Card communication protocols comprise CardBus and/or PCMCIA communication protocols.